

PIEZOELECTRIC CERAMIC PRODUCTION METHOD AND PIEZOELECTRICELEMENT PRODUCTION METHOD

ABSTRACT

5 An active matrix drive type liquid crystal display element capable of preventing deterioration of display capability caused by a stripe domain, and a projection type display device using the liquid crystal display element, by which there is provided a projection type

10 display device comprising a light source; a light convergence optical system for guiding a light emitted from said light source to a liquid crystal display element; and a projection optical system for enlarging and projecting a light subjected to light modulation by

15 said liquid crystal display element; wherein the liquid crystal display element is configured by holding a liquid crystal layer between a pair of substrates arranged to face to each other, and a twisted nematic type liquid crystal material used in the liquid crystal layer

20 satisfies dielectric constant anisotropy $\Delta\epsilon$ of $0 < \Delta\epsilon < 8$ and twist elasticity modulus K_{22} of $K_{22} > 6.0$ pN when the refractive index anisotropy Δn is $0.16 \leq \Delta n \leq 0.18$ and satisfies dielectric constant anisotropy $\Delta\epsilon$ of $0 < \Delta\epsilon <$

13 and twist elasticity modulus K_{22} of $K_{22} > 3.0$ pN when

25 the refractive index anisotropy Δn is $0.18 \leq \Delta n \leq 0.20$.